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1 [Group A: localization: On the effect of localization errors on geographic face routing](#) ☐



[in sensor networks](#)

Karim Seada, Ahmed Helmy, Ramesh Govindan

April 2004 **Proceedings of the third international symposium on Information processing in sensor networks IPSN '04**

Publisher: ACM Press

Full text available: [pdf\(431.55 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the absence of location errors, geographic routing - using a combination of greedy forwarding and face routing - has been shown to work correctly and efficiently. The effects of location errors on geographic routing have not been studied before. In this work we provide a detailed analysis of the effects of location errors on the correctness and performance of geographic routing in static sensor networks. First, we perform a micro-level behavioral analysis to identify the possible protocol err ...

Keywords: data-centric storage, face routing, geographic routing, localization inaccuracy, location errors, wireless sensor networks

2 [Creating volume models from edge-vertex graphs](#) ☐



Patrick M. Hanrahan

July 1982 **ACM SIGGRAPH Computer Graphics , Proceedings of the 9th annual conference on Computer graphics and interactive techniques SIGGRAPH '82**, Volume 16 Issue 3

Publisher: ACM Press

Full text available: [pdf\(740.65 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The design of complex geometric models has been and will continue to be one of the limiting factors in computer graphics. A careful enumeration of the properties of topologically correct models, so that they may be automatically enforced, can greatly speed this process. An example of the problems inherent in these methods is the "wire frame" problem, the automatic generation of a volume model from an edge-vertex graph. The solution to this problem has many useful applications in ...

3 [Geometric modeling of solid objects by using a face adjacency graph representation](#) ☐

Silvia Ansaldi, Leila De Floriani, Bianca Falcidieno



July 1985 **ACM SIGGRAPH Computer Graphics , Proceedings of the 12th annual conference on Computer graphics and interactive techniques SIGGRAPH '85**, Volume 19 Issue 3

Publisher: ACM Press

Full text available: [pdf\(715.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A relational graph structure based on a boundary representation of solid objects is described. In this structure, called face adjacency graph, nodes represent object faces, whereas edges and vertices are encoded into arcs and hyperarcs. Based on the face adjacency graph, we define a set of primitive face-oriented Euler operators, and a set of macrooperators for face manipulation, which allow a compact definition and an efficient updating of solid objects. We briefly describe a hierarchical graph ...

4 The complexity of many faces in arrangements of lines of segments



H. Edelsbrunner, L. J. Guibas, M. Sharir

January 1988 **Proceedings of the fourth annual symposium on Computational geometry**

Publisher: ACM Press

Full text available: [pdf\(1.16 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We show that the total number of edges of m faces of an arrangement of n lines in the plane is $O(m^{2/3} + n^{2/3} + n)$, for any $\epsilon > 0$. The proof takes an algorithmic approach, that is, we describe an algorithm for the calculation of these m faces and derive the upper bound from the analysis of the algorithm. The algorithm uses random ...

5 The synthesis of solids bounded by many faces



I. C. Braid

April 1975 **Communications of the ACM**, Volume 18 Issue 4

Publisher: ACM Press

Full text available: [pdf\(775.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A technique is presented which allows a class of solid objects to be synthesized and stored using a computer. Synthesis begins with primitive solids like a cube, wedge, or cylinder. Any solid can be moved, scaled, or rotated. Solids may also be added together or subtracted. Two algorithms to perform addition are described. For practical designers, the technique has the advantage that operations are concise, readily composed, and are given in terms of easily imagined solids. Quite short sequence ...

Keywords: computational geometry, computer-aided design, graphics, machined components, polyhedra, shape synthesis, three-dimensional modeling

6 Face fixer: compressing polygon meshes with properties



Martin Isenburg, Jack Snoeyink

July 2000 **Proceedings of the 27th annual conference on Computer graphics and interactive techniques**

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: [pdf\(1.00 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Most schemes to compress the topology of a surface mesh have been developed for the lowest common denominator: triangulated meshes. We propose a scheme that handles the topology of arbitrary polygon meshes. It encodes meshes directly in their polygonal representation and extends to capture face groupings in a natural way. Avoiding the

triangulation step we reduce the storage costs for typical polygon models that have group structures and property data.

Keywords: connectivity encoding, mesh compression

7 Face-based data structure and its application to robust geometric modeling



Masatake Higashi, Fuyuki Torihara, Nobuhiro Takeuchi, Toshio Sata, Tsuyoshi Saitoh, Mamoru Hosaka

December 1995 **Proceedings of the third ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available: [pdf\(1.09 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 FAR: Face-aware routing for mobicast in large-scale sensor networks



Qingfeng Huang, Sangeeta Bhattacharya, Chenyang Lu, Grigore-Catalin Roman

November 2005 **ACM Transactions on Sensor Networks (TOSN)**, Volume 1 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.89 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article presents FAR, a Face-Aware Routing protocol for mobicast---a spatiotemporal variant of multicast tailored for sensor networks with environmental mobility. FAR features face-routing and timed-forwarding for delivering a message to a mobile delivery zone. Both analytical and statistical results show that FAR achieves reliable spatial and just-in-time message delivery with only moderate communication and memory overhead. This article also presents a novel distributed algorithm for spat ...

Keywords: System design, graph theory, sensor networks, simulations, spatiotemporal multicast, statistics, wireless ad hoc networks

9 Efficient face-based feature recognition



J. Corney, D. E. R. Clark

June 1993 **Proceedings on the second ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available: [pdf\(882.79 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Aspect Vector, Face cycles, Face-Edge Graph, Feature Recognition, Search Algorithm

10 Faster algorithms for finding small edge cuts in planar graphs



Satish B. Rao

July 1992 **Proceedings of the twenty-fourth annual ACM symposium on Theory of computing**

Publisher: ACM Press

Full text available: [pdf\(1.36 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we consider partitioning a planar graph by removing either nodes or edges. In particular, we consider a cut to be either a set of nodes or edges whose removal divides the graph into two pieces. We define the balance of a cut as the ratio of the weight of the

smaller side of the cut to the total weight in the graph. Thus, the best possible balance is $1/2$. We define the quotient cost of a cut as the ratio of the cost of the cut to th ...

11 Session 10B: Edge partition of planar graphs into two outerplanar graphs



Daniel Gonçalves

May 2005 **Proceedings of the thirty-seventh annual ACM symposium on Theory of computing**

Publisher: ACM Press

Full text available: pdf(253.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An *outerplanar graph* is a planar graph that can be embedded in the plane without crossing edges, in such a way that all the vertices are on the outer boundary. In this paper, we prove a conjecture of Chartrand, Geller, and Hedetniemi that any planar graph $G=(V,E)$ has a bipartition of its edge set $E = A \cup B$ such that the graphs induced by these subsets, $G[A]$ and $G[B]$, are outerplanar.

Keywords: edge partition, outerplanar graphs, planar graphs

12 Oral I: 3D face recognition based on high-resolution 3D face modeling from frontal



and profile views

Lijun Yin, Matt T. Yourst

November 2003 **Proceedings of the 2003 ACM SIGMM workshop on Biometrics methods and applications**

Publisher: ACM Press

Full text available: pdf(528.92 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a novel face recognition system which considers information from both frontal and profile view images and videos. In the system, we recover facial texture details by increasing the input image resolution, construct an accurate 3D face model from two views of a face, and explore both 3D shape and texture informations for an optimal match and identification based on a 3D face model database. Unlike many existing 3D face recognition systems where the 3D model is taken as a bridg ...

Keywords: face identification, face modeling, super-resolution

13 Session P7: unstructured grids and volume rendering: Circular incident edge lists: a data structure for rendering complex unstructured grids



Bruno Lévy, Guillaume Caumon, Stéphane Conreux, Xavier Cavin

October 2001 **Proceedings of the conference on Visualization '01**

Publisher: IEEE Computer Society

Full text available: pdf(2.30 MB) [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present the *Circular Incident Edge Lists* (CIEL), a new data structure and a high-performance algorithm for generating a series of iso-surfaces in a highly unstructured grid. Slicing-based volume rendering is also considered. The CIEL data structure represents all the combinatorial information of the grid, making it possible to optimize the classical *propagation from local minima* paradigm. The usual geometric structures are replaced by a more efficient combinatorial structure. An ...

Keywords: combinatorial topology, iso-surfaces, unstructured grids, volume rendering

14 Session 5C: Approximation schemes for minimum 2-edge-connected and

biconnected subgraphs in planar graphs

Artur Czumaj, Michelangelo Grigni, Papa Sissokho, Hairong Zhao

January 2004 **Proceedings of the fifteenth annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available:  [pdf\(282.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Given an undirected graph, finding either a minimum 2-edge-connected spanning subgraph or a minimum 2-vertex-connected (biconnected) spanning subgraph is MaxSNP-hard. We show that for planar graphs, both problems have a polynomial time approximation scheme (PTAS) with running time $n^{O(1/\epsilon)}$, where n is the graph size and ϵ is the relative error allowed. When the planar graph has edge costs, we approximately solve the analogous min-cost subgraph problems in ...

15 Posters and Short Papers: A new approach for rotated face detection



Qiang Zhu, Jiashi Chen

October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Publisher: ACM Press

Full text available:  [pdf\(1.58 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Human face detection has always been an important problem for face recognition and face tracking. Though considerable attempts have been made to detect and localize faces, these approaches have made assumptions that restrict their extension to more general cases. In this paper we design a novel method to detect a rotated face on the basis of image edge information. Considering the efficiency problem, we propose two key techniques in our approach: first, three points based RHT is applied to detect ...

Keywords: edge detection, face detection, histogram, hough transform, rotated face, symmetry axis

16 Large mesh generation from boundary models with parametric face representation



Reinhard Klein, Wolfgang Straber

December 1995 **Proceedings of the third ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available:  [pdf\(909.89 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: boundary representation, finite elements, incremental Delaunay triangulation, meshing, rendering, stereolithography

17 Real-time rendering: Hardware-determined feature edges



Morgan McGuire, John F. Hughes

June 2004 **Proceedings of the 3rd international symposium on Non-photorealistic animation and rendering**

Publisher: ACM Press

Full text available:  [pdf\(543.94 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Algorithms that detect silhouettes, creases, and other edge based features often perform per-edge and per-face mesh computations using global adjacency information. These are unsuitable for hardware-pipeline implementation, where programmability is at the vertex and pixel level and only local information is available. Card and Mitchell and Gooch have suggested that adjacency information could be packed into a vertex data structure; we describe the details of converting global/per-edge computatio ...

Keywords: GPU, NPR, contour, shadow volume, silhouette

18 [An algorithm to compute the Minkowski sum outer-face of two simple polygons](#) ☐



G. D. Ramkumar

May 1996 **Proceedings of the twelfth annual symposium on Computational geometry**

Publisher: ACM Press

Full text available: pdf(736.71 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 [Hierarchical face clustering on polygonal surfaces](#) ☐



Michael Garland, Andrew Willmott, Paul S. Heckbert

March 2001 **Proceedings of the 2001 symposium on Interactive 3D graphics**

Publisher: ACM Press

Full text available: pdf(1.77 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: dual contraction, face clusters, quadric error metrics, spatial data structures, surface simplification

20 [Edge-disjoint routing in plane switch graphs in linear time](#) ☐



Jan M. Hochstein, Karsten Weihe

July 2004 **Journal of the ACM (JACM)**, Volume 51 Issue 4

Publisher: ACM Press

Full text available: pdf(597.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

By a *switch graph*, we mean an undirected graph $G = (P \cup W, E)$ such that all vertices in P (the *plugs*) have degree one and all vertices in W (the *switches*) have even degrees. We call G *plane* if G is planar and can be embedded such that all plugs are in the outer face. Given a set $(s_1, t_1), \dots, (s_k, t_k)$ of pairs of plugs, the ...

Keywords: Planar graphs, edge-disjoint paths

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1 [Shape feature determination using the curvature region representation](#)



Ratnaker Sonthi, Girish Kunjur, Rajit Gadhi

May 1997 **Proceedings of the fourth ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available: [pdf\(1.21 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [Machine interpretation of CAD data for manufacturing applications](#)



Qiang Ji, Michael M. Marefat

September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.90 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Machine interpretation of the shape of a component for CAD databases is an important problem in CAD/CAM, computer vision, and intelligent manufacturing. It can be used in CAD/CAM for evaluation of designs, in computer vision for machine recognition and machine inspection of objects, and in intelligent manufacturing for automating and integrating the link between design and manufacturing. This topic has been an active area of research since the late '70s, and a significant number of computat ...

Keywords: artificial intelligence, automated process planning, computer-aided design, computer-integrated manufacturing, feature recognition, flexible automation

3 [Multi-criteria geometric optimization problems in layered manufacturing](#)



Jayanth Majhi, Ravi Janardan, Michiel Smid, Jörg Schwerdt

June 1998 **Proceedings of the fourteenth annual symposium on Computational geometry**

Publisher: ACM Press

Full text available: [pdf\(1.28 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4

[Model-based recognition in robot vision](#)





Roland T. Chin, Charles R. Dyer

March 1986 **ACM Computing Surveys (CSUR)**, Volume 18 Issue 1

Publisher: ACM Press

Full text available: [pdf\(4.94 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper presents a comparative study and survey of model-based object-recognition algorithms for robot vision. The goal of these algorithms is to recognize the identity, position, and orientation of randomly oriented industrial parts. In one form this is commonly referred to as the "bin-picking" problem, in which the parts to be recognized are presented in a jumbled bin. The paper is organized according to 2-D, 2½-D, and 3-D object representations, which are used as the basis for ...

5 A coherent sweep plane slicer for layered manufacturing



Sara McMains, Carlo Séquin

June 1999 **Proceedings of the fifth ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available: [pdf\(1.46 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: .STL format, CAD/CAM, computational geometry, rapid prototyping, slicing, topology

6 Approximation algorithms for layered manufacturing



Pankaj K. Agarwal, Pavan K. Desikan

February 2000 **Proceedings of the eleventh annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available: [pdf\(1.00 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Model-based object recognition in dense-range images—a review



Farshid Arman, J. K. Aggarwal

March 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 1

Publisher: ACM Press

Full text available: [pdf\(3.42 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The goal in computer vision systems is to analyze data collected from the environment and derive an interpretation to complete a specified task. Vision system tasks may be divided into data acquisition, low-level processing, representation, model construction, and matching subtasks. This paper presents a comprehensive survey of model-based vision systems using dense-range images. A comprehensive survey of the recent publications in each subtask pertaining to dense-range image object recognition ...

Keywords: 3D object recognition, 3D representations, CAD-based vision, dense-range images, image understanding

8 Face-based data structure and its application to robust geometric modeling



Masatake Higashi, Fuyuki Torihara, Nobuhiro Takeuchi, Toshio Sata, Tsuyoshi Saitoh, Mamoru Hosaka

December 1995 **Proceedings of the third ACM symposium on Solid modeling and**

applications

Publisher: ACM Press

Full text available:  [pdf\(1.09 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 Level set and PDE methods for computer graphics



David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(17.07 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

10 Incremental algorithms for collision detection between solid models



Madhav Ponamgi, Dinesh Manocha, Ming C. Lin
December 1995 **Proceedings of the third ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available:  [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Collision detection and proximity queries



Sunil Hadap, Dave Eberle, Pascal Volino, Ming C. Lin, Stephane Redon, Christer Ericson
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(11.22 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This course will primarily cover widely accepted and proved methodologies in collision detection. In addition more advanced or recent topics such as continuous collision detection, ADFs, and using graphics hardware will be introduced. When appropriate the methods discussed will be tied to familiar applications such as rigid body and cloth simulation, and will be compared. The course is a good overview for those developing applications in physically based modeling, VR, haptics, and robotics.

12 Computational Approaches to Image Understanding



Michael Brady
March 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(10.04 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

13 Assembly sequencing with toleranced parts



Jean-Claude Latombe, Randall H. Wilson
December 1995 **Proceedings of the third ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available:  [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: assembly planning, assembly sequencing, non-directional blocking graph, solid modeling, tolerancing

14 Three-dimensional object recognition



Paul J. Besl, Ramesh C. Jain

March 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: [pdf\(7.76 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A general-purpose computer vision system must be capable of recognizing three-dimensional (3-D) objects. This paper proposes a precise definition of the 3-D object recognition problem, discusses basic concepts associated with this problem, and reviews the relevant literature. Because range images (or depth maps) are often used as sensor input instead of intensity images, techniques for obtaining, processing, and characterizing range data are also surveyed.

15 Volumetric multi-texturing for functionally gradient material representation



Seok-Min Park, Richard H. Crawford, Joseph J. Beaman

May 2001 **Proceedings of the sixth ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available: [pdf\(989.15 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Solid Freeform Fabrication (SFF) methods have demonstrated the potential to manufacture parts from Functionally Gradient Materials (FGM). One of the keys to success is an accurate and systematic representation of varying material distributions in the geometry. This paper introduces a method called Volumetric Multi-Texturing (VMT) to represent a three dimensional density gradient. The scheme originates from volumetric rendering by texturing, which is used in computer graphics to create fuzzy obj ...

Keywords: computational support for new manufacturing technologies, heterogeneous models, product data exchange

16 Approximation algorithms for multiple-tool milling



Sunil Arya, Siu-Wing Cheng, David M. Mount

June 1998 **Proceedings of the fourteenth annual symposium on Computational geometry**

Publisher: ACM Press

Full text available: [pdf\(1.42 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 A survey of methods for recovering quadrics in triangle meshes



Sylvain Petitjean

June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: [pdf\(3.91 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In a variety of practical situations such as reverse engineering of boundary representation from depth maps of scanned objects, range data analysis, model-based recognition and

algebraic surface design, there is a need to recover the shape of visible surfaces of a dense 3D point set. In particular, it is desirable to identify and fit simple surfaces of known type wherever these are in reasonable agreement with the data. We are interested in the class of quadric surfaces, that is, algebraic surfa ...

Keywords: Data fitting, geometry enhancement, local geometry estimation, mesh fairing, shape recovery

18 Large mesh generation from boundary models with parametric face representation



Reinhard Klein, Wolfgang Straber

December 1995 **Proceedings of the third ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available: [pdf\(909.89 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: boundary representation, finite elements, incremental Delaunay triangulation, meshing, rendering, stereolithography

19 A new algorithm for computing shortest paths in weighted planar subdivisions



(extended abstract)

Christian S. Mata, Joseph S. B. Mitchell

August 1997 **Proceedings of the thirteenth annual symposium on Computational geometry**

Publisher: ACM Press

Full text available: [pdf\(1.45 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 Finding feasible mold parting directions using graphics hardware



Rahul Khardekar, Greg Burton, Sara McMains

June 2005 **Proceedings of the 2005 ACM symposium on Solid and physical modeling**

Publisher: ACM Press

Full text available: [pdf\(551.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

We present new programmable graphics hardware accelerated algorithms to test the castability of geometric parts and assist with part redesign. These algorithms efficiently identify and graphically display undercuts and minimum and insufficient draft angles. Their running times grow only linearly with respect to the number of facets in the solid model, making them efficient subroutines for our algorithms that test whether a tessellated CAD model can be manufactured in a two-part mold. We have dev ...

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21 [Partial entity structure: a compact non-manifold boundary representation based on](#)



[partial topological entities](#)

Sang Hun Lee, Kunwoo Lee

May 2001 **Proceedings of the sixth ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available: [pdf\(1.06 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Non-manifold boundary representations have gained a great deal of popularity in recent years and various representation schemes have been proposed because they allow an even wider range of objects for various applications than conventional manifold representations. However, since these schemes are mainly interested in describing sufficient adjacency relationships of topological entities, the models represented in these schemes occupy too much storage space redundantly although they are very e ...

Keywords: boundary representation, data structure, geometric modeling, non-manifold, topological entity

22 [Polygonization of non-manifold implicit surfaces](#)



Jules Bloomenthal, Keith Ferguson

September 1995 **Proceedings of the 22nd annual conference on Computer graphics and interactive techniques**

Publisher: ACM Press

Full text available: [pdf\(287.25 KB\)](#)

[ps\(1.69 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: implicit surface, non-manifold, polygonization

23 [A laminae approach to constructing geometric feature volumes](#)



T. Lim, J. R. Corney, D. E. R. Clark

May 2001 **Proceedings of the sixth ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available:  [pdf\(971.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The limiting factor for the majority of reported feature recognition (AFR) algorithms lie in their inability to handle anything more complex than the restricted geometric domain of 2.5D machined components. This paper describes a novel approach to recognising shape features on models comprising both simple and complex ruled surfaces. Specifically, the paper describes how the concept of *3D-laminae* enables feature volumes bounded by complex ruled surfaces to be constructed. This generic ...

Keywords: CAD/CAM, feature recognition, geometric reasoning, laminae, non-2.5D geometry

24 Unified geometric modeling by non-manifold shell operation



Masatake Higashi, Hideki Yatomi, Yoshihiro Mizutani, Shin-ichi Murabata

June 1993 **Proceedings on the second ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available:  [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


25 Active zones in CSG for accelerating boundary evaluation, redundancy elimination, interference detection, and shading algorithms



Jaroslav R. Rossignac, Herbert B. Voelcker

November 1988 **ACM Transactions on Graphics (TOG)**, Volume 8 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(2.67 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Solids defined by Boolean combinations of solid primitives may be represented in constructive solid geometry (CSG) as binary trees. Most CSG-based algorithms (e.g., for boundary evaluation, graphic shading, interference detection) do various forms of set-membership classification by traversing the tree associated with the solid. These algorithms usually generate intermediate results that do not contribute to the final result, and hence may be regarded as redundant and a source of inefficiency ...


26 Dynamic segmentation and incremental editing of boundary representations in a collaborative design environment



Di Wu, Radha Sarma

May 2001 **Proceedings of the sixth ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available:  [pdf\(1.35 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Currently boundary representations (b-reps) are a convenient means to exchange solid models between applications in a distributed design environment. There are two widely used approaches that help maintain the consistency of b-reps between applications, e.g., when a b-rep is modified in one application and needs to be updated in the other. One approach involves using a common database of b-reps where consistency is automatically guaranteed. The other approach involves using a repeated transfer ...

27 Manufacturable feature recognition and its integration with process planning



JungHyun Han, Inho Han

June 1999 **Proceedings of the fifth ACM symposium on Solid modeling and**

applications

Publisher: ACM Press

Full text available:  [pdf\(1.09 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: feature dependency, feature recognition, machining sequence, manufacturability, process planning

28 A small feature suppression/unsuppression system for preparing B-rep models for analysis



K. Y. Lee, C. G. Armstrong, M. A. Price, J. H. Lamont

June 2005 **Proceedings of the 2005 ACM symposium on Solid and physical modeling**

Publisher: ACM Press

Full text available:  [pdf\(2.02 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

CAD technology plays an ever more central role in today's multidisciplinary simulation environments. While this has enabled highly complex and detailed models to be used earlier in the design process it has brought with it difficulties for simulation specialists. Most notably CAD models now contain many details which are irrelevant to simulation disciplines. CAD systems have feature trees which record feature creation but unfortunately this does not capture which features are relevant to which a ...

Keywords: CAD model simplification, Idealisation, analysis model derivation, audit trail, feature reinstatement, feature suppression

29 Representation conversions: Three-dimensional halfspace constructive solid geometry tree construction from implicit boundary representations



Suzanne F. Buchele, Richard H. Crawford

June 2003 **Proceedings of the eighth ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available:  [pdf\(474.19 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a new method to compute constructive solid geometry (CSG) tree representations of an object whose faces consist of planar and non-planar surfaces. The algorithm described accepts as input a valid boundary representation of an object consisting of piecewise implicit surfaces, and computes a halfspace CSG representation of the object. A class of objects that are *describable* by the surfaces bounding them are valid input for the algorithm of this work, although methods cur ...

Keywords: geometric and topological representations, product and assembly modeling, representation conversion, reverse engineering

30 Creating solid models from single 2D sketches



I. J. Grimstead, R. R. Martin

December 1995 **Proceedings of the third ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available:  [pdf\(1.29 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

31 Structured topological complexes: a feature-based API for non-manifold topologies



Jarek Rossignac

May 1997 **Proceedings of the fourth ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available: pdf(1.05 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



32 Model Simplification: Removal of blends from boundary representation models



Sashikumar Venkataraman, Milind Sohoni, Rahul Rajadhyaksha

June 2002 **Proceedings of the seventh ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available: pdf(360.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper reports an algorithm for deletion of blends (or fillets) from Boundary Representation (B-rep) solid models. Blend deletion is usually performed as the first step in feature recognition since it simplifies the model for recognition of volumetric features. The algorithm handles several blend types that include face-face, face-edge and vertex blends. It also handles interactions of blends with other blends and/or volumetric features. The main feature of our approach is the usage of the u ...

Keywords: blend chains, blend deletion, blend recognition, euler operators, face-deletion algorithms, feature recognition

33 High dynamic range imaging



Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(20.22 MB) Additional Information: [full citation](#), [abstract](#)

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent advances in high-dynamic-range imaging, from capture to display, that remove this restriction, thereby enabling images to represent the color gamut and dynamic range of the original scene rather than the limited subspace imposed by current monitor ...

34 Projectors: advanced graphics and vision techniques



Ramesh Raskar

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(6.53 MB) Additional Information: [full citation](#)

35 Subwavelength optical lithography: challenges and impact on physical design



A. B. Kahng, Y. C. Pati

April 1999 **Proceedings of the 1999 international symposium on Physical design**

Publisher: ACM Press

Full text available: pdf(1.30 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

36 Feature generation in concurrent engineering environment



Hyowon Suh, Rashpal S. Ahluwalia, James E. Miller

May 1991 **Proceedings of the first ACM symposium on Solid modeling foundations and CAD/CAM applications**

Publisher: ACM Press

Full text available: [pdf\(809.56 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

37 Shortest paths on a polyhedron



Jindong Chen, Yijie Han

May 1990 **Proceedings of the sixth annual symposium on Computational geometry**

Publisher: ACM Press

Full text available: [pdf\(809.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present an algorithm for determining the shortest path between a source point and any destination point along the surface of a polyhedron (need not be convex). Our algorithm uses a new approach which deviates from the conventional "continuous Dijkstra" technique. It takes $O(n^2)$ time and $O(n)$ space to determine the shortest path and to compute the inward layout which can be used to construct a s ...

38 Manufacturing feature instances: which ones to recognize?



Satyandra K. Gupta, William C. Regli, Dana S. Nau

December 1995 **Proceedings of the third ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available: [pdf\(1.16 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

39 Intelligent balloon: a subdivision-based deformable model for surface reconstruction of arbitrary topology



Ye Duan, Hong Qin

May 2001 **Proceedings of the sixth ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available: [pdf\(1.44 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we develop a novel subdivision-based model—Intelligent Balloon—which is capable of recovering arbitrary, complicated shape geometry as well as its unknown topology simultaneously. Our Intelligent Balloon is a parameterized subdivision surface whose geometry and its deformable behaviors are governed by the principle of energy minimization. Our algorithm starts from a simple seed model (of genus zero) that can be arbitrarily initiated by users within regions of interest ...

Keywords: biomedical applications, energy optimization, geometric and topological representations, reverse engineering

40 Separating an object from its cast



Hee-Kap Ahn, Mark de Berg, Prosenjit Bose, Siu-Wing Cheng, Dan Halperin, Jiří Matoušek, Otfried Schwarzkopf

August 1997 **Proceedings of the thirteenth annual symposium on Computational geometry**

Publisher: ACM Press



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TITLE: Real-time sales support and learning tool

PUBLICATION-DATE: September 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Wan</u> , Dadong	Palatine	IL	US
Groon, J.C.	Chicago	IL	US
Marwaha, Harpreet	St. Charles	IL	US
Singh, Mitu	Glendale Heights	IL	US

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PGPUB-DOCUMENT-NUMBER: 20050122463

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050122463 A1

TITLE: System and method for manufacturing liquid crystal display devices

PUBLICATION-DATE: June 9, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Byun, Yong Sang	Kumi-shi		KR
Park, Moo Yeo	Taegu-kwangyokshi		KR
Jung, Sung Su	Taegu-kwangyokshi		KR
Kang, Sung Chun	Kumi-shi		KR

Kim, Jong Woo	Kyongsanghui-do	KR
Jeung, Young Hun	Kumi-shi	KR
Lee, Sang Seok	Taegu-kwangyokshi	KR
Park, Sang Ho	Pusan-kwangyokshi	KR
Choo, Hun Jun	Kumi-shi	KR
Kweon, Hyug Jin	Kumi-shi	KR
Chae, Kyung Su	Kumi-shi	KR
Son, Hae Joon	Kyonsangbuk-do	KR
Shin, Sang Sun	Pohang-shi	KR
Lim, Jong Go	Kyonsangbuk-do	KR
Kim, Wan Soo	Arryang-shi	KR
Jeung, Young Hun	Youngcheon-shi	KR
Ryu, Joung Ho	Kumi-shi	KR
Uh, Ji Heum	Seoul	KR
Lee, Im Su	Taegu-kwangyokshi	KR

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Jun 9, 2005

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PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050122101 A1

TITLE: Single package design for 3-axis magnetic sensor

PUBLICATION-DATE: June 9, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Bohlinger, Michael J.	Minnetonka	MN	US
<u>Wan</u> , Hong	Plymouth	MN	US

US-CL-CURRENT: [324/252](#)

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PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050122100 A1

TITLE: Vertical die chip-on-board

PUBLICATION-DATE: June 9, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Wan</u> , Hong	Plymouth	MN	US
Jensen, Ronald J.	Bloomington	MN	US
Bohlinger, Michael J.	Minnetonka	MN	US
Bratland, Tamara K.	Plymouth	MN	US

US-CL-CURRENT: 324/247; 29/592.1, 324/260, 324/262

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draws
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☐ 5. Document ID: US 20050107994 A1

L1: Entry 5 of 13

File: PGPB

May 19, 2005

PGPUB-DOCUMENT-NUMBER: 20050107994

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050107994 A1

TITLE: System, method, and computer program product for determining wall thickness in graphic model

PUBLICATION-DATE: May 19, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Wan</u> , Jun	Cerritos	CA	US
Chong, Chee-Keong	Irvine	CA	US
Li, Zhi	Cypress	CA	US

US-CL-CURRENT: 703/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draws
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☐ 6. Document ID: US 20040260620 A1

L1: Entry 6 of 13

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040260620

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040260620 A1

TITLE: Storepath for sharing commerce assets

PUBLICATION-DATE: December 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dunn, Robert M. H.	Toronto		CA
Chan, Victor S.	Thornhill		CA
Lam, Brenda M.	North York		CA
Lee, Wan Ngai W.	North York		CA
Mirlas, Lev	Thornhill		CA
Yu, Paul K. H.	Toronto		CA

US-CL-CURRENT: 705/26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 7. Document ID: US 20040050934 A1

L1: Entry 7 of 13

File: PGPB

Mar 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040050934

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040050934 A1

TITLE: Memory card adapter structure

PUBLICATION-DATE: March 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chen, Andy	HsinDian City		TW
Lu, Lien-Wan	Tao Yuan Hsien		TW

US-CL-CURRENT: 235/441

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 8. Document ID: US 20030219814 A1

L1: Entry 8 of 13

File: PGPB

Nov 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030219814

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030219814 A1

TITLE: Novel fluorescent proteins

PUBLICATION-DATE: November 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wan, David Chi-Cheong	Shatin, N.T.		HK
Ip, Denis Tsz-Ming	Shatin, N.T.		HK

US-CL-CURRENT: 435/6; 435/7.1, 530/322, 530/330, 536/23.1, 536/53

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 9. Document ID: US 20030200930 A1

L1: Entry 9 of 13

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030200930

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030200930 A1

TITLE: Apparatus for ion beam implantation

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chen, Jiong	San Jose	CA	US
<u>Wan</u> , Zhimin	Sunnyvale	CA	US

US-CL-CURRENT: 118/723FI

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 10. Document ID: US 20030052319 A1

L1: Entry 10 of 13

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030052319

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030052319 A1

TITLE: Fixture for multiple known good die processing

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chen, Hsing-Hsin	Taipei Hsien	CA	TW
Chee, <u>Wan</u> Soo	Davis		US

US-CL-CURRENT: 257/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 11. Document ID: US 20020064766 A1

L1: Entry 11 of 13

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020064766
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020064766 A1

TITLE: Method and apparatus for managing enterprise employee training systems

PUBLICATION-DATE: May 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Cozens, Kerri	Milpitas	CA	US
Lobo, Brenda	San Jose	CA	US
Romanovsky, Eugenia	Palo Alto	CA	US
Wan, Suzie	South San Francisco	CA	US
Wolf, Cecilia	Danville	CA	US
Hayes, Lawrence J.	Westwood	MA	US
Lau, Frankie	Pleasanton	CA	US
Miller, James R.	Los Altos	CA	US
Tanglao, Minerva	San Jose	CA	US

US-CL-CURRENT: 434/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 12. Document ID: US 6918351 B2

L1: Entry 12 of 13

File: USPT

Jul 19, 2005

US-PAT-NO: 6918351
DOCUMENT-IDENTIFIER: US 6918351 B2

TITLE: Apparatus for ion beam implantation

DATE-ISSUED: July 19, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Jiong	San Jose	CA		
Wan; Zhimin	Sunnyvale	CA		

US-CL-CURRENT: 118/723CB; 118/723EB, 118/723FE, 250/492.21, 250/492.23

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 13. Document ID: US 4205809 A

L1: Entry 13 of 13

File: USPT

Jun 3, 1980

US-PAT-NO: 4205809
DOCUMENT-IDENTIFIER: US 4205809 A

TITLE: Tape cassette

DATE-ISSUED: June 3, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lau; Wan-Yuen	Kowloon			HK

US-CL-CURRENT: 360/130.33; 242/346

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Drawings
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
WAN	60588
WANS	7511
MODEL	585288
MODELS	189684
MANUFACTUR\$	0
MANUFACTUR	127
MANUFACTURA	3
MANUFACTURAB	1
MANUFACTURABE	1
MANUFACTURABIITY	2
MANUFACTURABILITIES	2
(WAN.IN. AND MODEL AND MANUFACTUR\$ AND FACE?).PGPB,USPT.	13

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☐ 1. Document ID: US 20060106485 A1

Using default format because multiple data bases are involved.

L3: Entry 1 of 21

File: PGPB

May 18, 2006

PGPUB-DOCUMENT-NUMBER: 20060106485

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060106485 A1

TITLE: Enhanced digital process design methodology for process centric CAD systems

PUBLICATION-DATE: May 18, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Landers; Diane M.	Frankenmuth	MI	US
Templin; Ralph L.	Eastpointe	MI	US

US-CL-CURRENT: 700/182; 700/98

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. De
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☐ 2. Document ID: US 20050184086 A1

L3: Entry 2 of 21

File: PGPB

Aug 25, 2005

PGPUB-DOCUMENT-NUMBER: 20050184086

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050184086 A1

TITLE: Method and system for supporting and/or aligning components of a liquid dispensing system

PUBLICATION-DATE: August 25, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Rateman, John M.	Atlanta	GA	US
Chastine, Christopher R.	Hoschton	GA	US
Chouinard, Alain	Laval	GA	CA
Craig, Greg A.	Dallas	GA	US
Pullagura, David	Norcross	GA	US

Tinaglia, Matthew R.

Suwanee

US

US-CL-CURRENT: 222/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 3. Document ID: US 20040249809 A1

L3: Entry 3 of 21

File: PGPB

Dec 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040249809

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040249809 A1

TITLE: Methods, systems, and data structures for performing searches on three dimensional objects

PUBLICATION-DATE: December 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ramani, Karthik	West Lafayette	IN	US
Iyer, Natraj	West Lafayette	IN	US
Lou, Kuiyang	West Lafayette	IN	US
Jayanti, Subramaniam	Lafayette	IN	US

US-CL-CURRENT: 707/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 4. Document ID: US 20040153296 A1

L3: Entry 4 of 21

File: PGPB

Aug 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040153296

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040153296 A1

TITLE: Horizontally structured CAD/CAM coordinate system

PUBLICATION-DATE: August 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Landers, Diane M.	Frankenmuth	MI	US
Muscott, Bradley T.	Saginaw	MI	US
Andrews, Ronnie L.	Saginaw	MI	US

US-CL-CURRENT: 703/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
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☐ 5. Document ID: US 20040153202 A1

L3: Entry 5 of 21

File: PGPB

Aug 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040153202

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040153202 A1

TITLE: Horizontally structured manufacturing process modeling: across file feature operability

PUBLICATION-DATE: August 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Landers, Diane M.	Frankenmuth	MI	US
Khurana, Pravin	Rochester	MI	US
Muscott, Bradley T.	Saginaw	MI	US

US-CL-CURRENT: 700/182

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
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☐ 6. Document ID: US 20040153201 A1

L3: Entry 6 of 21

File: PGPB

Aug 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040153201

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040153201 A1

TITLE: Horizontally structured CAD/CAM coordinate system for manufacturing design

PUBLICATION-DATE: August 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Landers, Diane M.	Frankenmuth	MI	US
Muscott, Bradley T.	Saginaw	MI	US
Khurana, Pravin	Rochester	MI	US

US-CL-CURRENT: 700/182

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
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☐ 7. Document ID: US 20040153200 A1

L3: Entry 7 of 21

File: PGPB

Aug 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040153200
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040153200 A1

TITLE: Horizontally structured manufacturing process modeling: exterior linked
representational embodiment

PUBLICATION-DATE: August 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Landers, Diane M.	Frankenmuth	MI	US
Khurana, Pravin	Rochester	MI	US
Muscott, Bradley T.	Saginaw	MI	US

US-CL-CURRENT: 700/182

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 8. Document ID: US 20030074880 A1

L3: Entry 8 of 21

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030074880
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030074880 A1

TITLE: Ornamental jewelry rope chain link element

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chia, Meang K.	Los Angeles	CA	US
Chia, Cheo K.	Los Angeles	CA	US
Chia, Huy K.	Los Angeles	CA	US

US-CL-CURRENT: 59/35.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 9. Document ID: US 7047721 B2

L3: Entry 9 of 21

File: USPT

May 23, 2006

US-PAT-NO: 7047721
DOCUMENT-IDENTIFIER: US 7047721 B2

TITLE: Jewelry rope chain link element and methods of manufacture

DATE-ISSUED: May 23, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20020035828 A1	March 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chia; Meang K.	Los Angeles	CA	90014	US
Chia; Cheo K.	Los Angeles	CA	90014	US
Chia; Huy K.	Los Angeles	CA	90014	US

US-CL-CURRENT: 59/80; 59/35.1, 59/82

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Drawn De
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☐ 10. Document ID: US 6985793 B2

L3: Entry 10 of 21

File: USPT

Jan 10, 2006

US-PAT-NO: 6985793

DOCUMENT-IDENTIFIER: US 6985793 B2

TITLE: Horizontally structured CAD/CAM coordinate system for manufacturing design

DATE-ISSUED: January 10, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040153201 A1	August 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Landers; Diane M.	Frankenmouth	MI		US
Muscott; Bradley T.	Saginaw	MI		US
Khurana; Pravin	Rochester	MI		US

US-CL-CURRENT: 700/182; 700/104, 700/118, 700/97, 703/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Drawn De
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☐ 11. Document ID: US 6950719 B2

L3: Entry 11 of 21

File: USPT

Sep 27, 2005

US-PAT-NO: 6950719

DOCUMENT-IDENTIFIER: US 6950719 B2

TITLE: Horizontally structured manufacturing process modeling: across file feature operability

DATE-ISSUED: September 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Landers; Diane M.	Frankenmouth	MI		
Khurana; Pravin	Rochester	MI		
Muscott; Bradley T.	Saginaw	MI		

US-CL-CURRENT: 700/182; 700/98, 703/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 12. Document ID: US 6840449 B2

L3: Entry 12 of 21

File: USPT

Jan 11, 2005

US-PAT-NO: 6840449

DOCUMENT-IDENTIFIER: US 6840449 B2

TITLE: Laser scanning system having multiple laser scanning stations for producing a 3-D scanning volume substantially free of spatially and temporally coincident scanning planes

DATE-ISSUED: January 11, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Check; Frank	San Jose	CA		
Dickson; LeRoy	Morgan Hill	CA		
Groot; John	San Jose	CA		
Knowles; C. Harry	Moorestown	NJ		

US-CL-CURRENT: 235/462.01; 235/472.01

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 13. Document ID: US 6829882 B2

L3: Entry 13 of 21

File: USPT

Dec 14, 2004

US-PAT-NO: 6829882

DOCUMENT-IDENTIFIER: US 6829882 B2

TITLE: Ornamental jewelry rope chain link element

DATE-ISSUED: December 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chia; Meang K.	Los Angeles	CA	90014	
Chia; Cheo K.	Los Angeles	CA	90014	
Chia; Huy K.	Los Angeles	CA	90014	

US-CL-CURRENT: 59/80; 59/3, 59/82

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 14. Document ID: US 6754556 B1

L3: Entry 14 of 21

File: USPT

Jun 22, 2004

US-PAT-NO: 6754556

DOCUMENT-IDENTIFIER: US 6754556 B1

TITLE: Horizontally structured manufacturing process modeling: enhancement to multiple master process models and across file feature operability

DATE-ISSUED: June 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Landers; Diane M.	Frankenmouth	MI	48734	
Templin; Ralph L.	Clinton Township	MI	48035	

US-CL-CURRENT: 700/182; 700/98

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 15. Document ID: US 6532725 B1

L3: Entry 15 of 21

File: USPT

Mar 18, 2003

US-PAT-NO: 6532725

DOCUMENT-IDENTIFIER: US 6532725 B1

TITLE: Ornamental jewelry rope chain link element

DATE-ISSUED: March 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chia; Meang K.	Los Angeles	CA	90014	
Chia; Cheo K.	Los Angeles	CA	90014	
Chia; Huy K.	Los Angeles	CA	90014	

US-CL-CURRENT: 59/35.1; 59/80, D11/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Drawings
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☐ 16. Document ID: US 5843279 A

L3: Entry 16 of 21

File: USPT

Dec 1, 1998

US-PAT-NO: 5843279

DOCUMENT-IDENTIFIER: US 5843279 A

**** See image for Certificate of Correction ****

TITLE: Cellulosic fibrous structures having at least three regions distinguished by intensive properties

DATE-ISSUED: December 1, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Phan; Dean Van	Cincinnati	OH		
Trokhon; Paul Dennis	Hamilton	OH		

US-CL-CURRENT: 162/109; 428/131, 428/218

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Drawings
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☐ 17. Document ID: US 5804281 A

L3: Entry 17 of 21

File: USPT

Sep 8, 1998

US-PAT-NO: 5804281

DOCUMENT-IDENTIFIER: US 5804281 A

**** See image for Certificate of Correction ****

TITLE: Cellulosic fibrous structures having at least three regions distinguished by intensive properties

DATE-ISSUED: September 8, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Phan; Dean Van	Cincinnati	OH		
Trokhon; Paul Dennis	Hamilton	OH		

US-CL-CURRENT: 428/137; 428/131, 428/138, 428/139, 428/166

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Drawings
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☐ 18. Document ID: US 5614061 A

L3: Entry 18 of 21

File: USPT

Mar 25, 1997

US-PAT-NO: 5614061

DOCUMENT-IDENTIFIER: US 5614061 A

**** See image for Certificate of Correction ****

TITLE: Apparatus for forming a cellulosic fibrous structures having at least three regions distinguished by intensive properties

DATE-ISSUED: March 25, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Van Phan; Dean	Cincinnati	OH		
Trokhan; Paul D.	Hamilton	OH		

US-CL-CURRENT: 162/109; 162/115, 162/290, 162/291, 162/362

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw De
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☐ 19. Document ID: US 5443691 A

L3: Entry 19 of 21

File: USPT

Aug 22, 1995

US-PAT-NO: 5443691

DOCUMENT-IDENTIFIER: US 5443691 A

**** See image for Certificate of Correction ****

TITLE: Method for making cellulosic fibrous structures having at least three regions distinguished by intensive properties

DATE-ISSUED: August 22, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Phan; Dean V.	Cincinnati	OH		
Trokhan; Paul D.	Hamilton	OH		

US-CL-CURRENT: 162/115; 162/109, 162/116, 162/361, 162/362

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw De
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☐ 20. Document ID: US 5277761 A

L3: Entry 20 of 21

File: USPT

Jan 11, 1994

US-PAT-NO: 5277761

DOCUMENT-IDENTIFIER: US 5277761 A

**** See image for Certificate of Correction ****

TITLE: Cellulosic fibrous structures having at least three regions distinguished by intensive properties

DATE-ISSUED: January 11, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Van Phan; Dean	Cincinnati	OH		
Trokhan; Paul D.	Hamilton	OH		

US-CL-CURRENT: 162/109; 162/111, 162/113, 162/116, 428/153

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence?	Attachments?	Claims	KWC	Drawings
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Term	Documents
PRODUCT	1363042
PROD	9819
PRODS	404
PRODUCTS	1055164
MODEL	585288
MODELS	189684
MANUFACTURING	881936
MFG	20175
REGION?	0
REGIONA	24
REGIONB	4
(L2 AND (PRODUCT WITH MODEL) AND (MANUFACTURING SAME REGION?)).PGPB,USPT.	21

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☐ 1. Document ID: US 20060106485 A1

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L4: Entry 1 of 18

File: PGPB

May 18, 2006

PGPUB-DOCUMENT-NUMBER: 20060106485

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060106485 A1

TITLE: Enhanced digital process design methodology for process centric CAD systems

PUBLICATION-DATE: May 18, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Landers; Diane M.	Frankenmuth	MI	US
Templin; Ralph L.	Eastpointe	MI	US

US-CL-CURRENT: 700/182; 700/98

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 2. Document ID: US 20050184086 A1

L4: Entry 2 of 18

File: PGPB

Aug 25, 2005

PGPUB-DOCUMENT-NUMBER: 20050184086

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050184086 A1

TITLE: Method and system for supporting and/or aligning components of a liquid dispensing system

PUBLICATION-DATE: August 25, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Rateman, John M.	Atlanta	GA	US
Chastine, Christopher R.	Hoschton	GA	US
Chouinard, Alain	Laval	GA	CA
Craig, Greg A.	Dallas	GA	US
Pullagura, David	Norcross	GA	US

Tinaglia, Matthew R.

Suwanee

US

US-CL-CURRENT: 222/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 20050172977 A1

L4: Entry 3 of 18

File: PGPB

Aug 11, 2005

PGPUB-DOCUMENT-NUMBER: 20050172977

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050172977 A1

TITLE: LOW IGNITION PROPENSITY (LIP) PAPER SMOKING ARTICLES

PUBLICATION-DATE: August 11, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Jadot, Paul	Chapel Hill	NC	US
Badan, Claude	Mebane	NC	US

US-CL-CURRENT: 131/365

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 20040249809 A1

L4: Entry 4 of 18

File: PGPB

Dec 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040249809

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040249809 A1

TITLE: Methods, systems, and data structures for performing searches on three dimensional objects

PUBLICATION-DATE: December 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ramani, Karthik	West Lafayette	IN	US
Iyer, Natraj	West Lafayette	IN	US
Lou, Kuiyang	West Lafayette	IN	US
Jayanti, Subramaniam	Lafayette	IN	US

US-CL-CURRENT: 707/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 20040153296 A1

L4: Entry 5 of 18

File: PGPB

Aug 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040153296
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040153296 A1

TITLE: Horizontally structured CAD/CAM coordinate system

PUBLICATION-DATE: August 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Landers, Diane M.	Frankenmuth	MI	US
Muscott, Bradley T.	Saginaw	MI	US
Andrews, Ronnie L.	Saginaw	MI	US

US-CL-CURRENT: 703/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 6. Document ID: US 20040153202 A1

L4: Entry 6 of 18

File: PGPB

Aug 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040153202
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040153202 A1

TITLE: Horizontally structured manufacturing process modeling: across file feature operability

PUBLICATION-DATE: August 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Landers, Diane M.	Frankenmuth	MI	US
Khurana, Pravin	Rochester	MI	US
Muscott, Bradley T.	Saginaw	MI	US

US-CL-CURRENT: 700/182

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 7. Document ID: US 20040153201 A1

L4: Entry 7 of 18

File: PGPB

Aug 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040153201
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040153201 A1

TITLE: Horizontally structured CAD/CAM coordinate system for manufacturing design

PUBLICATION-DATE: August 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Landers, Diane M.	Frankenmuth	MI	US
Muscott, Bradley T.	Saginaw	MI	US
Khurana, Pravin	Rochester	MI	US

US-CL-CURRENT: 700/182

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 8. Document ID: US 20040153200 A1

L4: Entry 8 of 18

File: PGPB

Aug 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040153200
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040153200 A1

TITLE: Horizontally structured manufacturing process modeling: exterior linked representational embodiment

PUBLICATION-DATE: August 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Landers, Diane M.	Frankenmuth	MI	US
Khurana, Pravin	Rochester	MI	US
Muscott, Bradley T.	Saginaw	MI	US

US-CL-CURRENT: 700/182

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 9. Document ID: US 20030074880 A1

L4: Entry 9 of 18

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030074880
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030074880 A1

TITLE: Ornamental jewelry rope chain link element

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chia, Meang K.	Los Angeles	CA	US.
Chia, Cheo K.	Los Angeles	CA	US
Chia, Huy K.	Los Angeles	CA	US

US-CL-CURRENT: 59/35.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 10. Document ID: US 20020189283 A1

L4: Entry 10 of 18

File: PGPB

Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020189283

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020189283 A1

TITLE: Jewelry closed-link element, assembled chain, and method of manufacture

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chia, Meang K.	Los Angeles	CA	US
Chia, Cheo K.	Los Angeles	CA	US
Chia, Huy K.	Los Angeles	CA	US

US-CL-CURRENT: 63/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 11. Document ID: US 7008300 B1

L4: Entry 11 of 18

File: USPT

Mar 7, 2006

US-PAT-NO: 7008300

DOCUMENT-IDENTIFIER: US 7008300 B1

TITLE: Advanced wafer refining

DATE-ISSUED: March 7, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Molnar; Charles J.	Wilmington	DE		US

US-CL-CURRENT: 451/41; 451/5, 451/6, 700/121

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 12. Document ID: US 6985793 B2

L4: Entry 12 of 18

File: USPT

Jan 10, 2006

US-PAT-NO: 6985793

DOCUMENT-IDENTIFIER: US 6985793 B2

TITLE: Horizontally structured CAD/CAM coordinate system for manufacturing design

DATE-ISSUED: January 10, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040153201 A1

August 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Landers; Diane M.	Frankenmouth	MI		US
Muscott; Bradley T.	Saginaw	MI		US
Khurana; Pravin	Rochester	MI		US

US-CL-CURRENT: 700/182; 700/104, 700/118, 700/97, 703/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 13. Document ID: US 6950719 B2

L4: Entry 13 of 18

File: USPT

Sep 27, 2005

US-PAT-NO: 6950719

DOCUMENT-IDENTIFIER: US 6950719 B2

TITLE: Horizontally structured manufacturing process modeling: across file feature operability

DATE-ISSUED: September 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Landers; Diane M.	Frankenmouth	MI		
Khurana; Pravin	Rochester	MI		
Muscott; Bradley T.	Saginaw	MI		

US-CL-CURRENT: 700/182; 700/98, 703/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 14. Document ID: US 6829882 B2

L4: Entry 14 of 18

File: USPT

Dec 14, 2004

US-PAT-NO: 6829882

DOCUMENT-IDENTIFIER: US 6829882 B2

TITLE: Ornamental jewelry rope chain link element

DATE-ISSUED: December 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chia; Meang K.	Los Angeles	CA	90014	
Chia; Cheo K.	Los Angeles	CA	90014	
Chia; Huy K.	Los Angeles	CA	90014	

US-CL-CURRENT: 59/80; 59/3, 59/82

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 15. Document ID: US 6786032 B2

L4: Entry 15 of 18

File: USPT

Sep 7, 2004

US-PAT-NO: 6786032

DOCUMENT-IDENTIFIER: US 6786032 B2

TITLE: Jewelry closed-link element, assembled chain, and method of manufacture

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chia; Meang K.	Los Angeles	CA	90014	
Chia; Cheo K.	Los Angeles	CA	90014	
Chia; Huy K.	Los Angeles	CA	90014	

US-CL-CURRENT: 59/35.1; 59/80, 59/82

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 16. Document ID: US 6754556 B1

L4: Entry 16 of 18

File: USPT

Jun 22, 2004

US-PAT-NO: 6754556

DOCUMENT-IDENTIFIER: US 6754556 B1

TITLE: Horizontally structured manufacturing process modeling: enhancement to multiple master process models and across file feature operability

DATE-ISSUED: June 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Landers; Diane M.	Frankenmouth	MI	48734	
Templin; Ralph L.	Clinton Township	MI	48035	

US-CL-CURRENT: 700/182; 700/98

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 17. Document ID: US 6719615 B1

L4: Entry 17 of 18

File: USPT

Apr 13, 2004

US-PAT-NO: 6719615

DOCUMENT-IDENTIFIER: US 6719615 B1

TITLE: Versatile wafer refining

DATE-ISSUED: April 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Molnar; Charles J.	Wilmington	DE		

US-CL-CURRENT: 451/41; 451/262, 451/28, 451/288

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 18. Document ID: US 6532725 B1

L4: Entry 18 of 18

File: USPT

Mar 18, 2003

US-PAT-NO: 6532725

DOCUMENT-IDENTIFIER: US 6532725 B1

TITLE: Ornamental jewelry rope chain link element

DATE-ISSUED: March 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chia; Meang K.	Los Angeles	CA	90014	
Chia; Cheo K.	Los Angeles	CA	90014	
Chia; Huy K.	Los Angeles	CA	90014	

US-CL-CURRENT: 59/35.1; 59/80, D11/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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